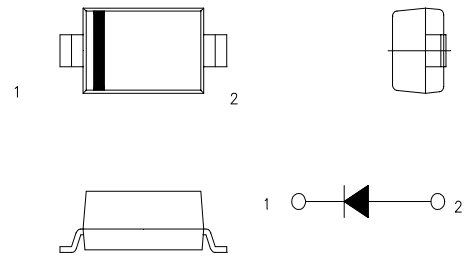


SBD Type : EP05Q03L

FEATURES

- * EDEC SOD-123 Package
- * Very Low profile 1.1mm Max
- * Extremely Low Forward Voltage Drop
- * Low Power Loss,High Efficiency
- * High Surge Capability
- * Low Thermal Resistance
- * Packaged in 8mm Tape and Reel

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight:0.011g

Rating	Symbol	EP05Q03L		Unit	
Repetitive Peak Reverse Voltage	V_{RRM}	30		V	
Average Rectified Output Current	I_O	0.49	$T_a=25^{\circ}\text{C}$ * 1	50Hz Half Sine Wave, Resistive Load	A
		0.50	$T_l=106^{\circ}\text{C}$		
RMS Forward Current	$I_{F(RMS)}$	0.785		A	
Surge Forward Current	I_{FSM}	8	50Hz Half Sine Wave,1cycle Non-repetitive	A	
Operating JunctionTemperature Range	T_{jw}	-40 to +150		$^{\circ}\text{C}$	
Storage Temperature Range	T_{stg}	-40 to +150		$^{\circ}\text{C}$	

Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	200	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}=0.5\text{A}$	-	-	0.45	V
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *	-	-	300	$^{\circ}\text{C}/\text{W}$
	$R_{th(j-l)}$	Junction to Lead	-	-	70	

*1: Glass Epoxy Substrate Mounted (Soldering Lands=1x1mm,Both Sides)
(T_l : Lead Temperature)

EP05Q03L OUTLINE DRAWING (Dimensions in mm)

